How to use this file...(Operators Manuals)

Instructions for
Print Vendors (Paper Manuals)

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* Cover—on pre-printed two-tone “Swash” stock.

Press:
* Body—1-color, 2-sided
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Bindery:
* Saddle Stitch, Face Trim
* Face Trim

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*** This file contains several manuals, which differ only in their covers.**
* Covers are all present at the beginning of this file.
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• Check the front cover for the individual part number (typically a 171xxxx number).

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• The body of the manual is identical, regardless of the cover used.
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General:
*** This instruction page is NOT part of the manual and must NOT be printed.**
• Pages labeled with the text “THIS PAGE INTENTIONALLY BLANK” are placement pages ONLY, and should NOT be printed.

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Simplicity®

OPERATOR'S MANUAL

Intermediate Snowthrower Models

555 Models

Mfg. No.	Description
1693646	555M, 5HP Snowthrower, Manual Start
1693647	555M, 5HP Snowthrower, Manual Start (Export)

755 Models

Mfg. No.	Description
1693648	755M, 7HP OHV Snowthrower, Manual Start
1693649	755M, 7HP OHV Snowthrower, Manual Start (Export)

1720407-00

Rev 6/1999
TP 100-2253-00-IW-S

MANUFACTURING, INC.
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Port Washington, WI 53074-0997

www.simplicitymfg.com

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⚠ WARNING

You must read, understand and comply with all safety and operating instructions in this manual before attempting to set-up and operate your snowthrower.

Failure to comply with all safety and operating instructions can result in loss of machine control, serious personal injury to you and /or bystanders, and risk of equipment and property damage. The triangle in the text signifies important cautions or warnings which must be followed.

⚠ WARNING

Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

For easy reference, please record the information in the chart below.

The Snowthrower Reference Data can be found on the identification tag located on the unit's rear frame. ***(****Refer to the Engine Owner's Manual for location of engine information serial number.)*

SNOWTHROWER REFERENCE DATA	
Model Description/Number	
M/N (Manufacturer's Number)	**S/N (Serial Number)**
Dealer Name	**Date Purchased**
ENGINE REFERENCE DATA	
Engine Make	**Engine Model**
Engine Type/Spec	**Engine Code/Serial Number**

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TP 100-2253-00-IW-S

Safety Rules

⚠ WARNING

This unit is a "two-stage" snowthrower.

The first stage is the auger, which feeds the snow back into the impeller housing. The second stage is the impeller, which throws the snow out the discharge chute. If bodily contact is made with the auger or impeller when they are rotating, severe personal injury will occur.

To avoid injury, keep others and yourself away from the auger and the discharge chute whenever the engine is running. Read and follow all of the safety rules and warnings in this manual.

⚠ WARNING

To avoid serious injury, do not put your hands into the auger housing or discharge chute. If auger stalls or chute becomes plugged, use the following procedure to remove objects or clear the chute:

1. Release both the Drive and Auger Control levers.
2. Shut off the engine.
3. Remove the Engine Key.
4. Wait for moving parts to stop.
5. Disconnect spark plug wire.
6. Use a narrow board to remove foreign objects and clear the chute or auger. Never put your hands into the auger or discharge chute.

GENERAL

- Read the Operator's Manual carefully. Be thoroughly familiar with all controls and proper equipment use.
- Never allow children to operate the machine. Do not allow adults to operate it without proper instruction.
- Keep the area of operation clear of all persons, particularly small children and pets.
- Never discharge material toward any person or pet.
- Make sure:
  a. snowthrower is in good operating condition;
  b. all safety devices and shields are in place and working;
  c. all adjustments are correct.

PREPARATION

- Never attempt to make any adjustment while engine is running.
- Thoroughly inspect the area where the snowthrower is to be used and remove all objects such as door mats, sleds, boards, wires and sticks.
- Disengage all clutches (release Drive and Auger Control levers) before starting engine.
- Do not operate snowthrower without wearing proper winter clothing. Wear footwear which improves footing on slippery surfaces.
- Do not wear long scarves or loose clothing that could become entangled in moving parts.
- Adjust Skid Shoe height to clear gravel or crushed rock surface.
- Handle gasoline with care - it is highly flammable.
  a. Use approved gasoline container.
  b. Never remove the fuel tank cap or add gasoline to a running or hot engine.
  c. Never fill the fuel tank indoors.
  d. Wipe up spilled gasoline.
- Do not run engine indoors. Exhaust fumes are deadly.

OPERATION

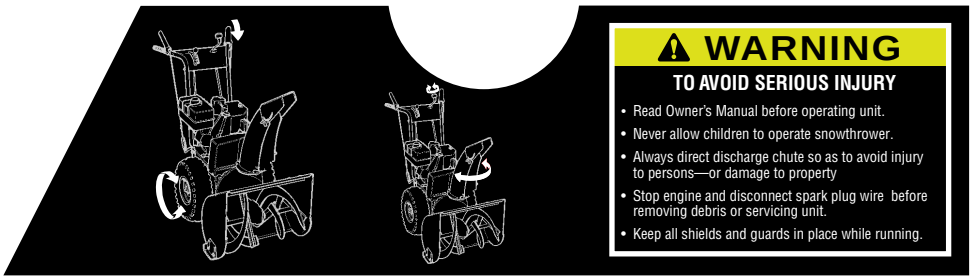
- Keep hands and feet away from rotating parts. Keep clear of discharge opening at all times.
- Always clear snow up and down the face of slopes, never across the face. Use extreme caution when changing direction on slopes. Do not attempt to clear slopes over 17.7% (10º)·
- Use extreme caution when operating on or crossing gravel drives, walks or roads. Stay alert for hidden hazards and traffic.
- Be especially careful not to touch snowthrower parts which might be hot from operation. Allow such parts to cool before attempting to maintain, adjust or service.
- If unit starts to vibrate abnormally, disengage drives and stop the engine. Check immediately for the cause. Vibration is generally a warning of trouble.
- Before leaving operator's position for any reason:
  - shut off engine,
  - remove the Engine Key and
  - wait for all moving parts to stop.
- Before cleaning, repairing or inspecting the unit, make certain all moving parts have stopped. Remove the key and then disconnect the spark plug wire to prevent accidental starting.
- Always use a grounded, 3-wire plug receptacle for electric starting.
- Adjust snow discharge angle for safe flow when operating near glass enclosures, automobiles, window wells, dropoffs, etc.
- Do not overload machine capacity by clearing snow at too fast a ground speed.
- Never operate machine at high transport speeds on slippery surfaces. Use care when backing up.
- Disengage Auger Control when transporting or not in use.
- Never operate the snowthrower without good visibility or light. Always be sure of your footing.
- Do not change the engine governor settings or overspeed the engine.
- Never direct the discharge chute at bystanders; nor allow anyone in front of the unit while it is operational.
- Never operate this machine without all of the proper guards or other safety protective devices in place.

MAINTENANCE & STORAGE

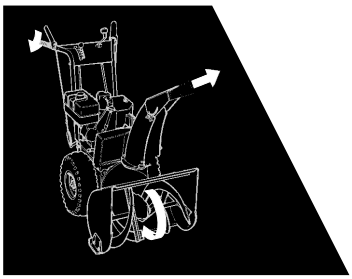
- Keep all nuts, bolts and screws tight to ensure that the equipment is in safe operating condition.
- Never store equipment with gasoline in the tank in a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
- Always refer to the Operator's Manual for important details if snowthrower is to be stored for an extended period.
- Run auger drive a few seconds after completion of throwing snow to help clear out snow and prevent icing and freeze-up on unit.

SAFETY DECALS

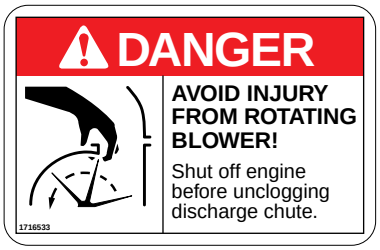
Safety warning decals are placed at strategic locations on the snowthrower as a constant reminder to the operator of the most important safety precautions. All warning, caution and instructional messages on your snowthrower should be carefully read and obeyed. If any of these decals are lost or damaged, replace them at once. They can be purchased from your local dealer.


WARNING
TO AVOID SERIOUS INJURY
• Read Owner's Manual before operating unit.
• Never allow children to operate snowthrower.
• Always direct discharge chute so as to avoid injury to persons—or damage to property
• Stop engine and disconnect spark plug wire before removing debris or servicing unit.
• Keep all shields and guards in place while running.

Part No. 1715556
WARNING / Main Dash Decal



Part No. 1715555
Auger Control Decal



Part No. 1716533
Discharge Chute Danger Decal

Part No. 1716532
Auger Danger Decal

Engine "Hot" Decal

Decal supplied by the engine manufacturer. See your local Tecumseh dealer.

ADDITIONAL DECALS

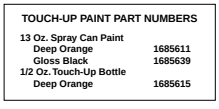
Additional decals used on this unit are also available, and may be desired as replacement parts to maintain the performance and value of your unit. These can also be purchased from your local dealer.

Part No. 1715557
Speed Selector Decal

Simplicity®

Part No. 1715558
Simplicity Logo Decal

Part No. 1714107 (755) Or Part No. 1714108 (555)
Simplicity Logo Auger Decal



Part No. 1720454
Touch-Up Paint ID Decal

SNOWTHROWER CONTROLS

A	Speed Selector	Selects Forward Speeds 1 - 5, Reverse Speeds 1 - 2
B	Drive Control	Engages drive to wheels as it is depressed; disengages when released.
C	Auger Control	Engages auger/impeller as it is depressed; disengages when released.
D	Chute Direction Control	Rotates discharge chute to desired direction
E	Chute Deflector	Controls vertical angle snow is thrown.
F	Chute Deflector Knob	Locks chute deflector at desired angle
G	Skid Shoes	Controls height of scraper bar
H	Traction Lock Pins	Engages for drive and disengages for free-wheeling

ENGINE CONTROLS

A*	Electric Start Button (Optional)	Activates electric starter
B*	Fuel Valve	Turns fuel supply on or off.
C	Starter Handle	Used to start engine
D	Primer Button	Primes carburetor for faster cold starting.
E	Throttle Lever	Controls engine speed
F	Engine Key	Prevents starting of engine without key. Stops engine when removed.
G	Choke Knob	Adjusts air/fuel mixture

* Electric starter & fuel valve located on right side of OHV engines.

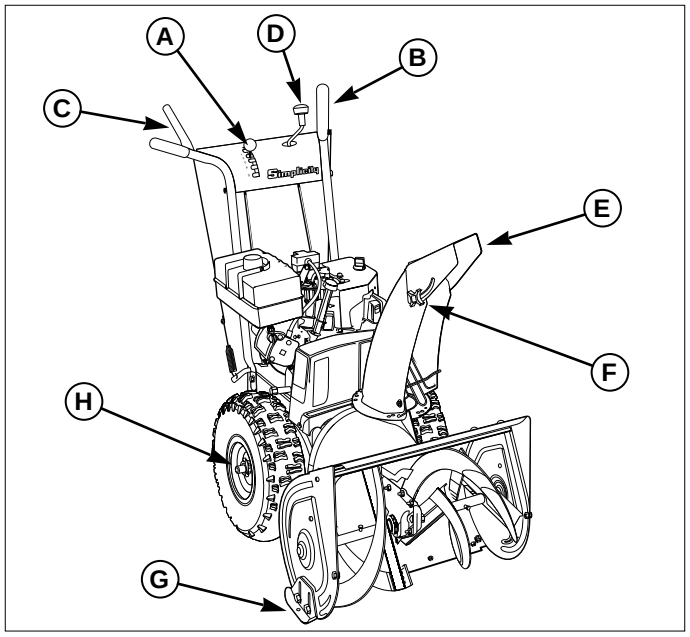


Figure 1. Snowthrower Controls

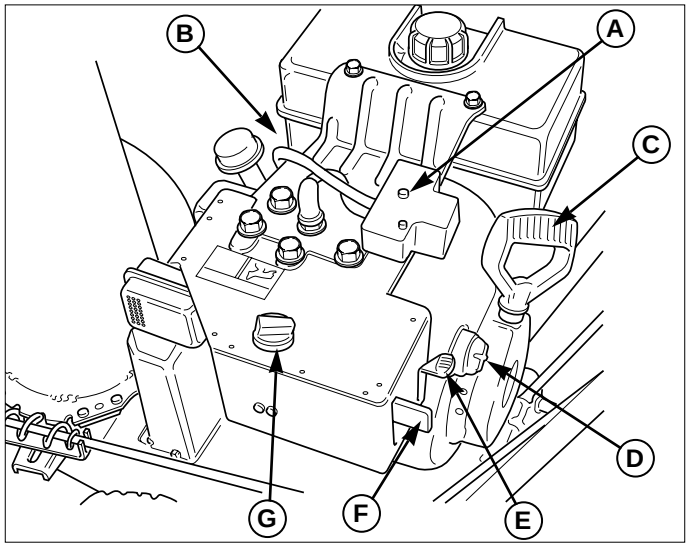


Figure 2. Engine Controls - 5HP Models

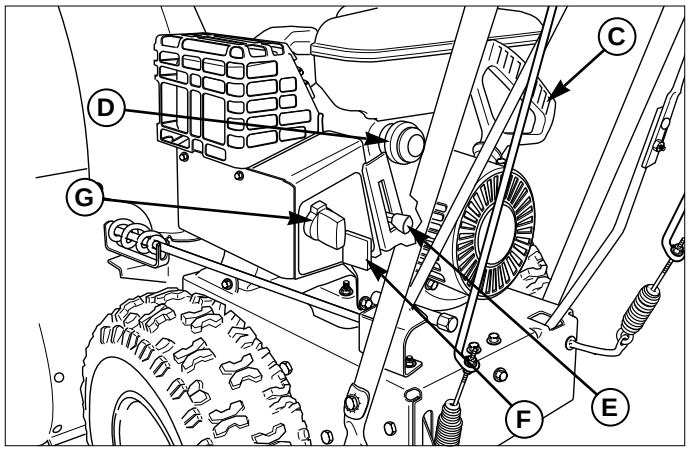


Figure 3. Engine Controls - 7HP Models

STARTING CONTROLS

Units with Optional Electric Start

A. Electric Start Button - The Electric Start Button (A, Figures 4 & 5) activates an electric starter mounted to the engine, eliminating the need to pull the starter handle. The Electric Start Button operates on 120 Volts AC, which is provided by connection to the extension cord provided with units equipped with this feature. ***Connect this extension cord ONLY to a properly grounded 3 prong electrical outlet.***

Manual Start

B. Fuel Valve - The fuel valve (B, Figure 4 & 5) is located under the fuel tank. It is used to turn the fuel supply off for out-of-season storage.

C. Starter Handle - The starter handle (C, Figure 4 & 5) connects to a starter cord to manually start the engine. Pulling starter handle rapidly spins the engine crankshaft, cycles the engine, and generates the spark necessary for starting the engine.

D. Primer Button - When pressed, the primer button (D, Figure 4 & 5) provides initial fuel to help start a cold engine. Normally, pressing the primer button twice will provide enough fuel to start a cold engine.

E. Throttle Lever - The throttle lever (E, Figure 4 & 5) controls the engine speed. For best overall performance, the throttle lever should be set to the **FAST** position. Use the **SLOW** position only for warming the engine, or to help prevent snow/ice freeze-up when shutting the unit down for the day.

F. Engine Key - The Engine Key (F, Figure 4 & 5) prevents the engine from being started by unauthorized individuals. The key must be fully inserted into the key slot for the unit to start. The key is also used to stop the engine by pulling the key out of the key slot.

G. Choke Knob - The Choke Knob (G, Figure 4 & 5) adjusts the air/fuel mixture, and is used to help start a cold engine by providing a richer mixture. Once the engine is warm and running smoothly, the Choke Knob should be set to the off position to provide a normal air/fuel mix.

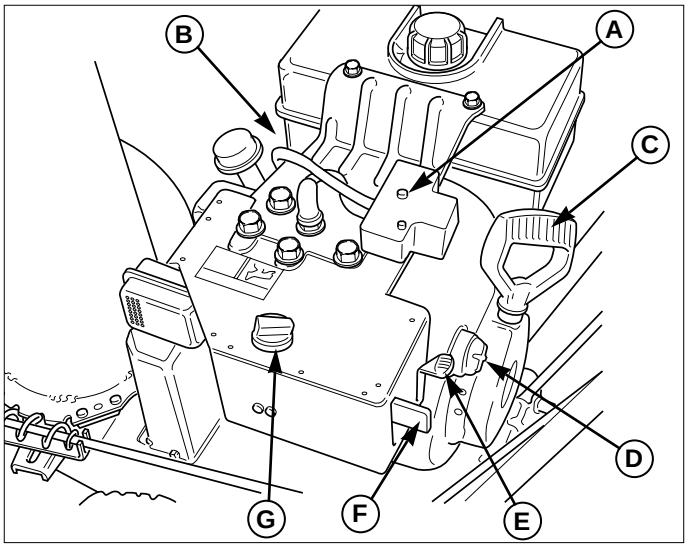


Figure 4. Engine Controls - 5HP Models

A. Electric Start Button (Optional)
B. Fuel Valve
C. Starter Handle
D. Primer Button
E. Throttle Lever
F. Engine Key
G. Choke Knob

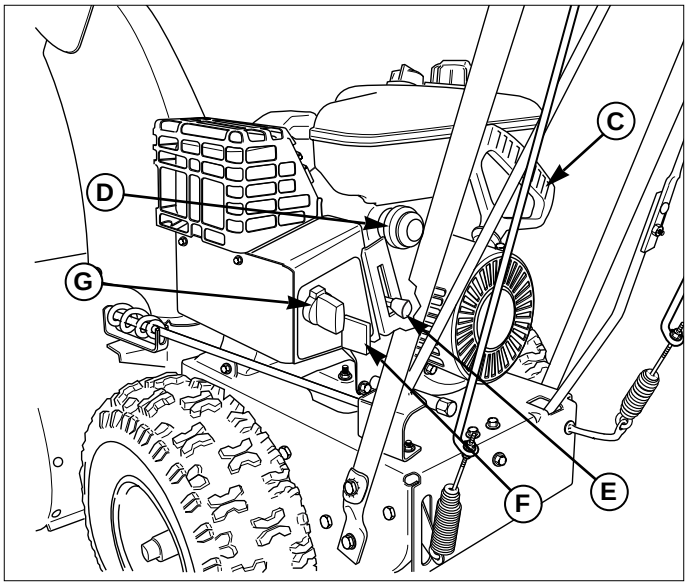


Figure 5. Engine Controls - 7HP Models

A*. Electric Start Button (Optional)
B*. Fuel Valve
C. Starter Handle
D. Primer Button
E. Throttle Lever
F. Engine Key
G. Choke Knob

* Electric start button & fuel valve located on right side of engine.

GROUND SPEED CONTROLS

A. Speed Selector - This lever (A, Figures 6 & 7) is used to set the ground speed of the snowthrower.

The snowthrower has five forward speeds, 1–5, and two reverse speeds, 1–2. No neutral position or gate is required, since the traction drive design automatically provides "neutral" (no forward or reverse movement), whenever the Drive Control is released.

B. Drive Control - This control engages the traction drive as the lever (B, Figures 6 & 7) is depressed, and disengages the traction drive when the lever is released. The traction drive provides power to the wheels. NOTE: Changing ground speeds must only be done while the Drive Control is in the disengaged (fully released) position.

AUGER CONTROL

C. Auger Control - The Auger Control clutch lever (C Figures 6 & 7), engages the auger drive (which throws the snow) as the lever is depressed, and disengages the auger drive when the lever is released.

DEFLECTOR CONTROLS

D. Chute Direction Control - The Chute Direction Control (D, Figures 6 & 7), allows the discharge chute to be rotated to throw snow in the desired direction. Snow may be thrown at any angle from straight left, to straight forward, to straight right.

E. Chute Deflector - Controls the distance snow is thrown. Tilting the Chute Deflector (E, Figures 6 & 7) UP provides a higher stream and greater distance, while tilting the deflector DOWN provides a lower stream and less distance.

F. Chute Deflector Knob - This knob (F, Figures 6 & 7) allows the discharge Chute Deflector (E, Figures 6 & 7) to be locked in the desired tilt position.

SCRAPER HEIGHT CONTROL

G. Scraper Bar Height Control - The Skid Shoes (G, Figure 7) control the height the scraper bar (located at the bottom of the auger housing). The scraper bar allows smooth surfaces (such as concrete or asphalt driveways) to be scraped clean of snow. On surfaces such as gravel, the scraper bar should be adjusted higher — so that it will not pick up gravel or debris.

TRACTION LOCK CONTROL

H. Traction Lock Pins - The traction drive to each wheel can be locked and unlocked with the Traction Lock Pins (H, Figure 7) to permit the unit to “free-wheel,” allowing easier manual handling and transport of the snowthrower.

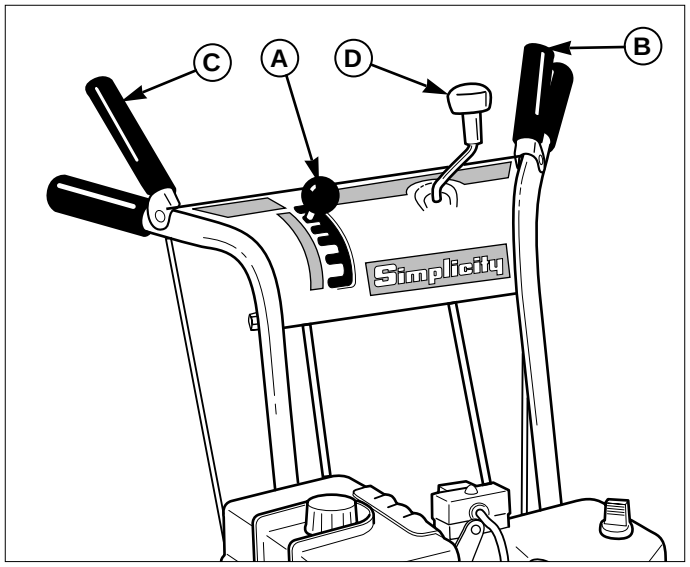


Figure 6. Operator's Control Position

A. Speed Selector
B. Drive Control
C. Auger Control
D. Chute Direction Control

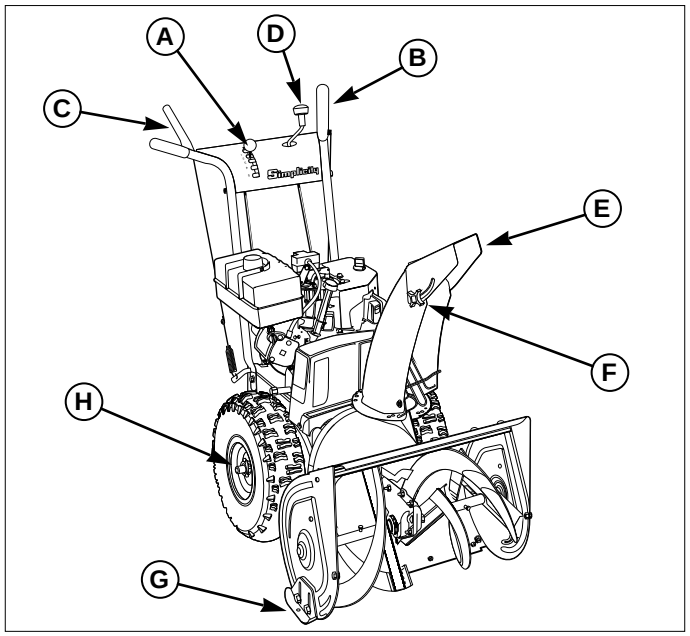


Figure 7. Snowthrower Controls

A. Speed Selector
B. Drive Control
C. Auger Control
D. Chute Control
E. Chute Deflector
F. Chute Deflector Knob
G. Skid Shoes
H. Traction Lock Pins

GENERAL OPERATION

CHECKS BEFORE EACH START-UP

1. Make sure all safety guards are in place and all nuts, bolts and clips are secure.
2. Check the engine oil level. See your engine Owner's Manual for procedure and specifications.
3. Check to make sure spark plug wire is attached and spark plug is tightened securely. If necessary, torque spark plug to 15 ft. lbs.
4. Check the fuel supply. Fill the tank no closer than 1/4 to 1/2 inch of top of tank to provide space for expansion. See your engine Owner's Manual for fuel recommendations.
5. Check the Scraper Bar to make sure it is set at the desired height. Adjust the Skid Shoes if necessary. (See page 11.)
6. Check the Drive Control (B, Figure 6), and Auger Control (C, Figure 6) for proper operation. If adjustment is required, see the Service section for procedures.
7. Check the Chute Direction Control (D, Figure 6) for proper operation. The discharge chute should rotate freely in both directions. See the Service section for adjustment procedures and troubleshooting.
8. Check the Chute Deflector (E, Figure 7) for proper operation. The deflector should pivot freely up and down when the Chute Deflector Knob is loosened. If adjustment is required, see the Service Section for procedures.
9. Position the chute at the desired starting direction and set the deflector at the desired angle.
10. Check the Speed Selector (A, Figure 6) for smooth operation. The control must move freely into each speed position gate and remain in position when released. If the Speed Selector does not move freely into all forward and reverse speed positions, contact your local authorized dealer for assistance.

⚠ WARNING

To avoid serious injury, do not put your hands into the auger housing or discharge chute. If auger stalls or chute becomes plugged, use the following procedure to remove objects or clear the chute:

1. Release both the Drive and Auger Control levers.
2. Shut off the engine.
3. Remove the Engine Key.
4. Wait for moving parts to stop.
5. Disconnect spark plug wire.
6. Use a narrow board to remove foreign objects and clear the chute or auger. Never put your hands into the auger or discharge chute.

⚠ WARNING

For your safety, operation on slopes should be in an up and down direction only. If it becomes necessary to move across the face of a slope, use caution and do not blow snow. Be very careful when changing direction on a slope.

Proper winter footwear is recommended for the operator to help prevent slipping. Never attempt to clean snow from excessively steep slopes. The maximum slope for any operation is 17.7% (10º).

⚠ WARNING

Gasoline is highly flammable and must be handled with care. Never fill the tank when the engine is hot or running. Always move outdoors to fill the tank. Keep snowthrower and gasoline away from open flame or spark.

STARTING THE ENGINE

1. Turn the fuel valve (B, Figures 8 & 9) to the ON position.
2. Insert the Engine Key (F, Figures 8 & 9) into the Engine Key slot and push fully in to the RUN position.
3. Move the Throttle Lever (E, Figures 8 & 9) fully up to the FAST position.
4. Fully close the Choke (G, Figures 8 & 9) if engine is cold. (Do not choke a warm engine.)
5. Push the Primer Button (D, Figures 8 & 9) two times if engine is cold. (Do not prime a warm engine.)
6. Pull Starter Handle (C, Figures 8 & 9) rapidly, or push Starter Button if equipped with the electric start. Do not allow the Starter Handle to snap back—let the starter rope rewind slowly—while keeping a firm grip on the Starter Handle.
7. As the engine starts and begins to operate evenly, open the Choke (G, Figures 8 & 9) slowly and set the Throttle Lever to SLOW. If the engine falters, turn the Choke Knob clockwise until the engine runs smoothly, and let it run briefly before returning the choke to the OPEN position.

NOTE: Allow the engine to warm up at SLOW throttle for a few minutes before operating the snowthrower at full speed. The engine will not develop full power until it reaches operating temperature.

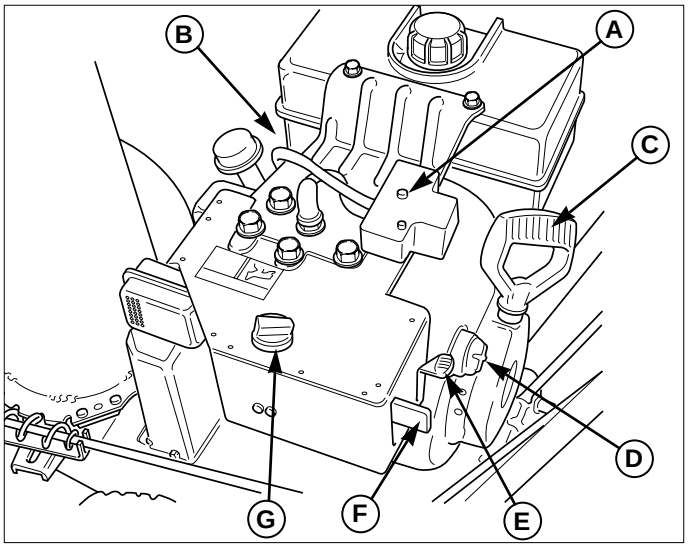


Figure 8. Engine Controls - 5HP Models

A. Electric Start Button (Optional)
B. Fuel Valve
C. Starter Handle
D. Primer Button
E. Throttle Lever
F. Engine Key
G. Choke Knob

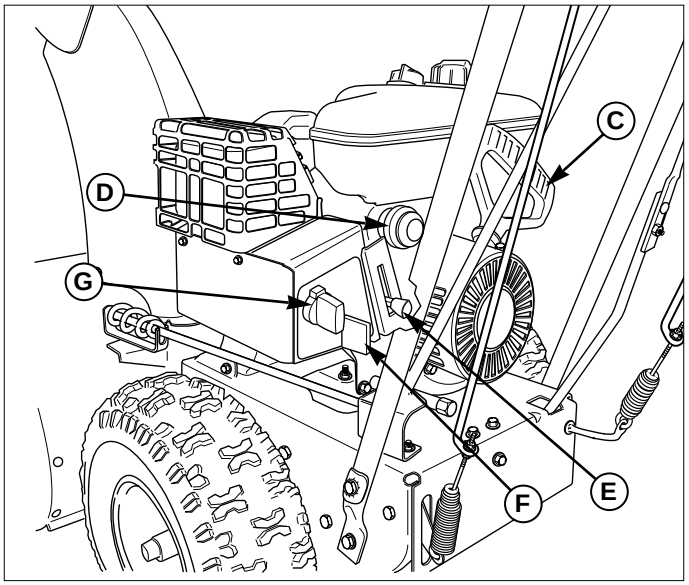


Figure 9. Engine Controls - 7HP Models

A. Electric Start Button (Optional)
B. Fuel Valve
C. Starter Handle
D. Primer Button
E. Throttle Lever
F. Engine Key
G. Choke Knob

* Electric start button & fuel valve located on right side of engine.

OPERATING THE SNOWTHROWER

1. Rotate the discharge chute to the desired direction.
2. Set the Speed Selector to the desired forward speed.
3. Fully press and hold the Auger Control (C, Figure 10) on the right-hand grip to begin auger rotation. To disengage the auger, completely release the lever.
4. Fully press and hold the traction Drive Control lever (B, Figure 10) on the left-hand grip to engage the traction drive and begin moving the snowthrower. To disengage the traction drive, completely release the lever.
5. Select forward or reverse speeds as needed using the Speed Selector (A, Figure 10). Release the Drive Control lever whenever changing drive speeds.

   NOTE: After 5 - 10 hours of use, it may be necessary to adjust the tension on the traction drive rod. See "Traction Drive Clutch Rod Adjustment" in the Service Section for the adjustment procedure.

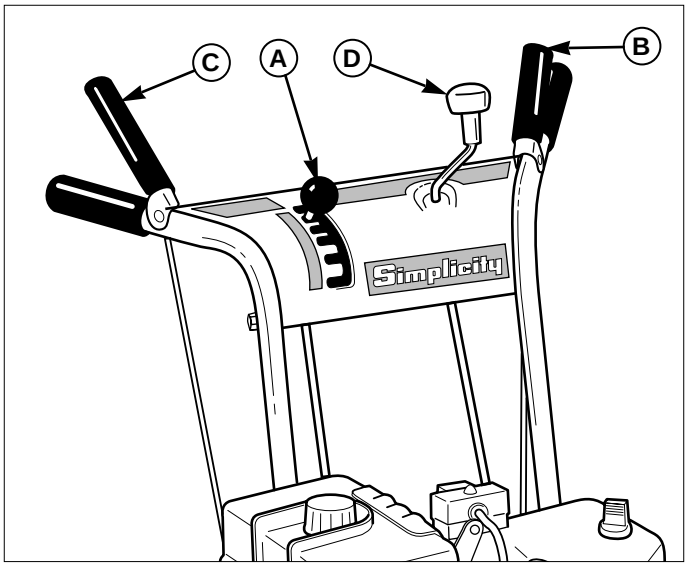


Figure 10. Operator's Control Position

A. Speed Selector
B. Drive Control
C. Auger Control
D. Chute Direction Control

GROUND SPEED SELECTOR

Use the Speed Selector (A, Figure 10) to control the drive speed of the snowthrower. There are five forward speeds and two reverse speeds.

Use the lower speeds to blow deep or wet snow. Use the higher speeds to blow light snow or to drive the snowthrower without blowing snow.

To change speeds, first release the traction Drive Control lever (B, Figure 10), then move the Speed Selector to the desired speed setting. Fully press the traction Drive Control lever to resume operation.

ENGINE SPEED

For overall best performance, run the snowthrower at full engine operating speed. Use the engine Throttle Lever (See Figure 11) to set the engine speed. Slide the Throttle Lever UP to increase engine speed, and DOWN to reduce speed.

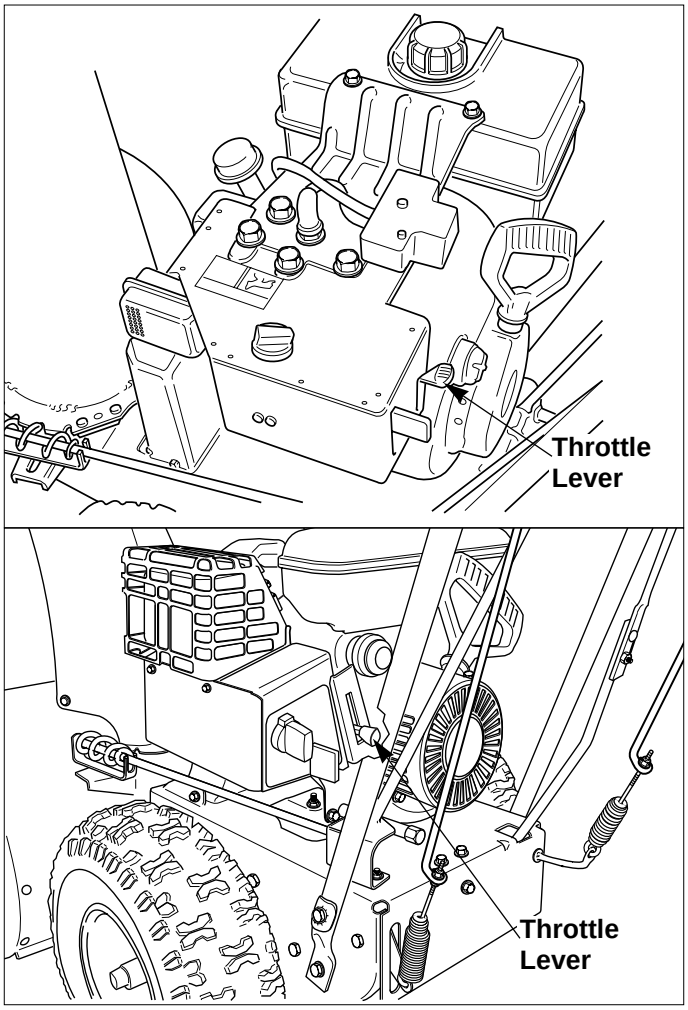


Figure 11. Engine Speed Selection

DEFLECTOR

The distance of the discharged snow is mainly controlled by the position of the deflector (Figure 12). (Engine speed also affects distance of discharge.)

The more the deflector is tilted UP, the farther snow will be thrown. Loosen the deflector knob, tilt the deflector UP or DOWN, and then retighten the knob when the desired angle has been chosen.

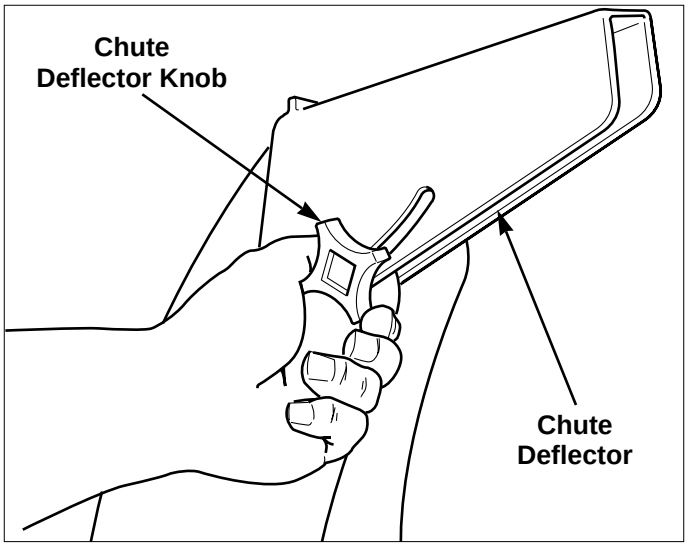


Figure 12. Chute Deflector Adjustment

SCRAPER BAR & SKID SHOES

On smooth surfaces such as concrete or asphalt, the scraper bar should scrape the surface. On surfaces such as gravel, the scraper bar should be high enough so that it will not pick up gravel or debris.

The height of the scraper bar is controlled by raising or lowering the Skid Shoes (See Figure 13).

1. To raise the scraper bar height, rest the scraper bar on a strip of wood equal in thickness to the desired height.
2. Make sure the scraper bar is parallel to the ground surface.
3. Loosen the skid shoe nuts and let the skid shoes drop to the surface.
4. Tighten the nuts, making sure the Skid Shoes are adjusted equally and are parallel to the surface.
5. To lower the height of the scraper bar, raise the Skid Shoes.
6. If the scraper bar becomes worn, it can be replaced by removing the hardware attaching it to the snowthrower.

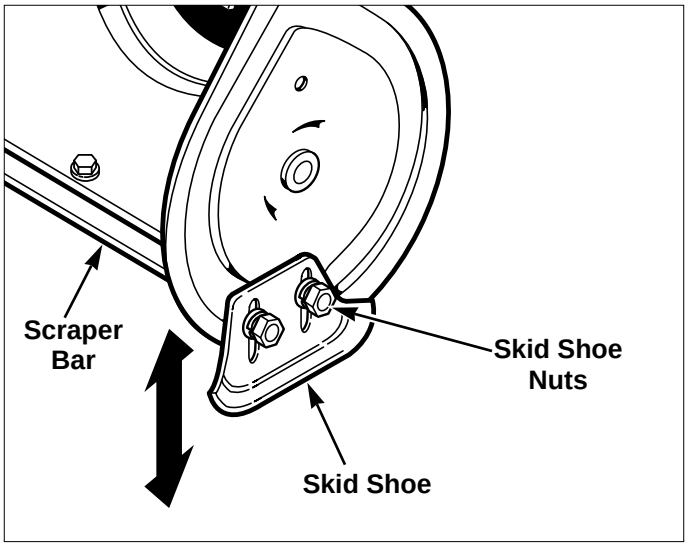


Figure 13. Skid Shoe Adjustment

FREE-WHEELING AND TRACTION DRIVE LOCK

For easy turning when pushing the snowthrower, you can disengage the traction drive at one or both wheels by using the Traction Lock Pins (See Figures 14 & 15.)

1. Turn the unit off, remove the Engine Key, and disconnect the spark plug wire.
2. To DISENGAGE the traction drive lock, insert the Traction Lock Pin through the outer hole in the axle. (See Figure 14).
3. To ENGAGE the traction drive lock, insert the pin through the hub and axle (See Figure 15). If the hole in the hub is not aligned with the inner hole in the axle, push the snowthrower until the holes align and install the Traction Lock Pin.

NOTE: When snowthrowing with the full width of the auger, for best drive performance engage both wheels. For easier turning when not using the full width of the auger, engage one wheel and use the engaged side as the snow contact side for the auger.

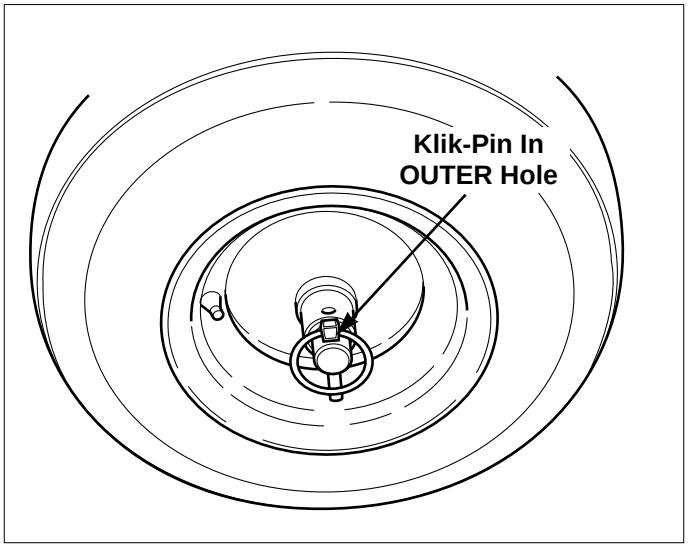


Figure 14. Traction Drive Lock - Disengaged

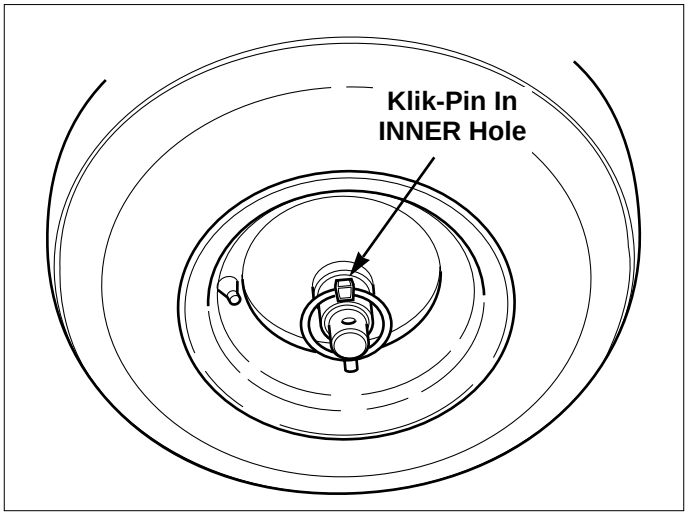


Figure 15. Traction Drive Lock - Engaged

AFTER EACH USE

Normal use of the snowthrower may result in a build-up of packed snow in and around the starter cord housing and around engine controls. Heat from the engine will usually prevent the snow from freezing solid while the unit is running, but after the engine is shut down, some snow may continue melting from engine heat, and later freeze around some moving parts as the unit cools.

After each period of use, follow these steps *to prevent freeze-up caused by ice formation* in and around the engine controls and external parts.

1. Before shutting off the engine, pull the starter rope out 2 - 3 times, and allow it to rewind slowly. This will help clear packed snow from the starter cord area.
2. Stop the engine by moving the Throttle Lever (See Figure 11) down, or by pulling out the Engine Key.
3. Disconnect the spark plug wire, and position it away from the spark plug.
4. Brush snow and ice from the snowthrower. Be sure to clear engine and snowthrower controls, discharge chute, worm and chute rod gears, clutch rod areas, and anywhere else snow has accumulated.
5. Always remove the Engine Key and store in a safe place to prevent unauthorized use.
6. If the snowthrower is kept in a cold shelter, fill the fuel tank to prevent condensation. Do not store near sparks or flame.

Note: The Engine Owner's Manual contains further information on preventing ice formation and freeze-up.

⚠ WARNING

Never store snowthrower, with gasoline in engine or fuel tank, in a heated shelter or in enclosed, poorly ventilated enclosures. Gasoline fumes may reach an open flame, spark or pilot light (such as a furnace, water heater, clothes dryer, etc.) and cause an explosion.

Handle gasoline carefully. It is highly flammable and careless use can result in serious fire damage to people and property.

Drain fuel into an approved container outdoors away from open flame or sparks.

NORMAL CARE

CARE REQUIRED	FREQUENCY	LUBRICATION
Check auger gear case lubrication.**	25 Hours	Simplicity Winter Weight Worm Gear Oil
Lubricate snowthrower.	10 Hours	10W Oil and Grease
Check tire pressure.	Monthly	N/A
Change engine oil.*✣	50 Hours✣	See Engine Manual
Clean or replace spark plug.✣	Yearly	See Engine Manual
Check drive linkage/belt tension	4-6 Hours	N/A

* Change original oil after two hours of operation.

** Check oil level each fall and spring.

✣ See your engine Owner's Manual.

OFF-SEASON STORAGE

Before you store your snowthrower for the off-season, read the Maintenance and Storage instructions in the Safety Rules section and take the following precautions:

NOTE: Gasoline, if permitted to stand unused for extended periods (30 days or longer), may develop gummy deposits which can adversely affect the engine carburetor and cause engine malfunction. To avoid this condition, add Simplicity Gasoline Stabilizer to the fuel tank, or drain all fuel from the system before placing unit in storage.

1. Prepare your snowthrower engine for storage as instructed in the Engine Owner's Manual.
2. Lubricate the snowthrower as described in the LUBRICATION section of this manual.
3. Clean the snowthrower thoroughly. Coat exposed bare metal parts with a quality paint (available from you dealer) or a light film of grease, oil or automotive wax.
4. Store snowthrower in the wheels down, operating position. *Note: If the unit is stored in any other position, oil from crankcase could enter cylinder head, causing a service problem.*
5. Store the unit in a protected area and cover.

STARTING AFTER STORAGE

1. Remove the spark plug and wipe dry. Crank the engine a few times to blow excess oil out of plug hole. Then reinstall plug.
2. Fill fuel tank with fresh gasoline (unless a fuel stabilizer was used).
3. Check to be sure engine fins are clean and air flow is unobstructed.
4. Check engine oil level and lubricate snowthrower. Change oil if necessary.
5. Start the engine outdoors. Warm up engine by running at SLOW speed for a a few minutes before running at FAST speed, or blowing snow.
6. Check the operation of all the controls. If necessary, lubricate the snowthrower to improve operation of the chute control.

CHECK AUGER GEAR CASE LUBRICATION

1. Place the snowthrower on a level surface.
2. Remove the Pipe Plug (Figure 16).
3. Check the lubricant level. It should be level with the lower edge of the plug opening. If not, add Simplicity Winter Weight Worm Gear Oil (available from your dealer).
4. Re-install Pipe Plug, and tighten securely.

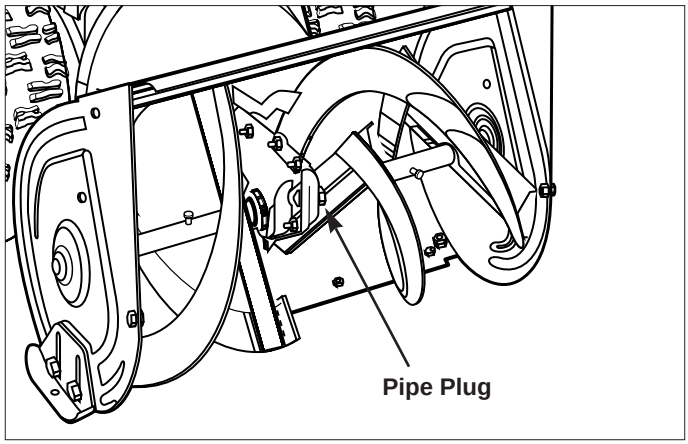


Figure 16. Checking Auger Gear Case Lubrication

LUBRICATION

IMPORTANT NOTE

It is very important that grease fittings on the auger shaft are lubricated regularly. If auger rusts to shaft, damage to worm gear may occur if shear pins do not break.

To prevent wheels rusting to axles, it is also necessary to remove the wheels and grease the axles regularly.

There are two grease fittings on the auger shaft (Figure 18). Wipe the fittings clean and apply grease, using a grease gun. Also apply grease on other points indicated.

Apply medium weight (10W) oil to points shown(See Figures 17 - 19).

Generally, all moving metal parts should be oiled where contact is made with other parts. Keep oil and grease off belts, pulley grooves, drive disc, and friction disc.

See lubrication notes at bottom of page.

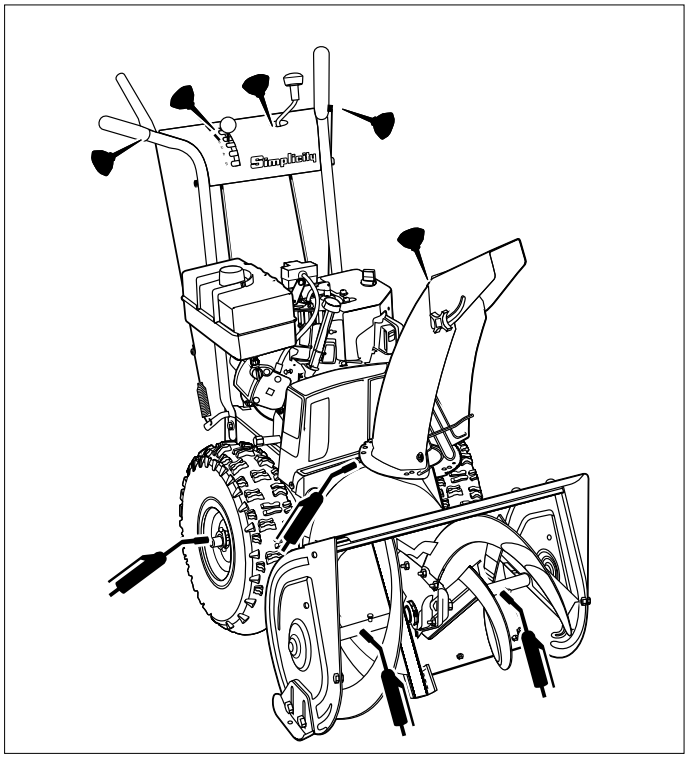


Figure 18. Snowthrower General Lubrication Points

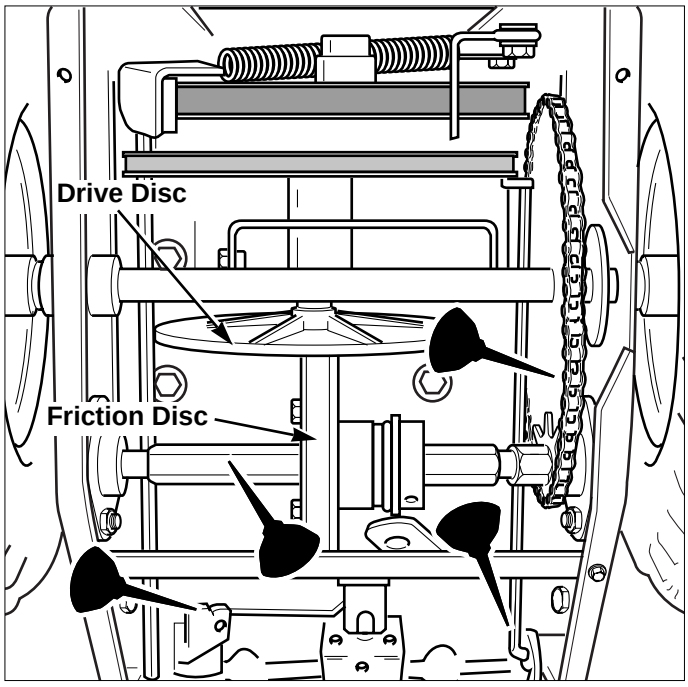


Figure 17. Drive Area Lubrication Points (Bottom Cover Removed)

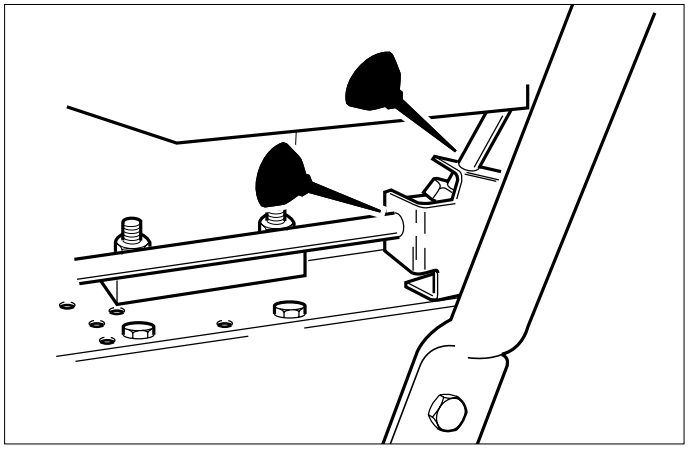


Figure 19. Chute Control Rod Gears

LUBRICATION NOTES:

1. Grease locations indicated by grease gun symbol:
   Use grease fittings when present. Disassemble parts to apply grease to moving parts when grease fittings are not installed.
2. Oil locations indicated by oil can symbol:
   Do not allow oil to drip onto traction drive or friction disc.

MAINTENANCE RECORDS:

TROUBLESHOOTING

This section provides troubleshooting and service instructions. Locate the problem and check the possible cause/remedy in the order listed.

Also, refer to the engine manufacturer's Owner's Manual for additional information.

For problems not covered here, contact your local dealer.

⚠ WARNING

Before performing any adjustment or service to snowthrower, stop the engine and wait for moving parts to stop. Remove the key. To prevent accidental starting, disconnect the spark plug wire and fasten away from the plug.

PROBLEM	POSSIBLE CAUSE	REMEDY
Engine fails to start.	1. Key is OFF. 2. Failure to Prime cold Engine 3. Fuel valve is in CLOSED position. 4. Out of fuel. 5. Choke OFF - cold engine. 6. Engine flooded. 7. Spark plug not sparking. 8. Water in fuel, or old fuel.	1. Push key in to the ON position. 2. Press Primer Button twice and restart. 3. Turn valve to OPEN position. 4. Fill fuel tank. 5. Turn choke to ON, set throttle to FAST. 6. Turn choke to OFF; try starting. 7. Check gap. Gap plug, clean electrode, or replace plug as necessary. 8. Drain tank (Dispose of fuel at an authorized hazardous waste facility). Fill with fresh fuel.
Engine starts hard or runs poorly.	1. Fuel mixture too rich. 2. Carburetor adjusted incorrectly. 3. Spark plug faulty, fouled, or gapped improperly.	1. Move choke to OFF position. 2. See your dealer for adjustments. 3. Clean and gap, or replace.
Auger does not rotate.	1. Auger Control not engaged. 2. Foreign matter blocking auger. 3. Auger drive clutch rod slack. 4. Auger drive belt slipping. 5. Broken belt. 6. Shear pin broken.	1. Engage Auger Control. 2. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Clear auger using a narrow board. See warning in SAFETY RULES. 3. Tighten to remove slack. See auger clutch rod adjustment. 4. Check auger drive belt adjustment. 5. Replace belt. 6. Replace shear pin.

PROBLEM	POSSIBLE CAUSE	REMEDY
Auger rotates, but snow is not thrown far enough	1. Chute deflector too low. 2. Engine speed too slow. 3. Ground speed too fast. 4. Snowthrower discharge chute clogged. 5. Auger belt loose or worn.	1. Adjust deflector as necessary. 2. Set speed to full throttle. 3. Use slower Speed Selector setting. 4. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Clear auger using a narrow board. See warning in SAFETY RULES. 5. Check Auger Drive Belt Adjustment
Scraper bar does not clean hard surface.	1. Skid Shoes improperly adjusted.	1. RAISE Skid Shoes (this lowers the Scraper Bar).
Scraper bar picks up and throws stones on gravel drive.	1. Skid shoes improperly adjusted.	1. LOWER Skid Shoes (this raises the scraper bar.)
Poor traction	1. Tires slipping.	1. Check tire pressure and tread.
Auger does not stop when auger lever is released	1. Auger clutch rod too tight or bent. 2. Auger drive belt out of adjustment. 3. Auger belt guide out of adjustment.	1. Loosen or straighten clutch rod. 2. Adjust auger belt. 3. Adjust auger belt guide.
Snowthrower does not stop when drive lever is released	1. Traction drive clutch rod bent or too tight.	1. Loosen rod to remove slack or replace. See adjustment procedure.
Snowthrower does not drive when drive lever is engaged.	1. Traction drive clutch rod loose. 2. Drive belt loose, broken, or stretched. 3. Drive roller chain damaged. 4. Traction Lock Pins in Free-Wheeling position (OUTER hole).	1. Tighten to remove slack. See adjustment procedure. 2. Replace drive belt. 3. Replace chain. 4. Change Traction Lock Pins to INNER hole to engage traction drive.
Discharge control is difficult to operate.	1. Gearing needs lubrication 2. Worm gear not adjusted properly. 3. Control rod gears misaligned.	1. Oil or grease as required. 2. Adjust worm gear. See adjustment procedure. 3. Adjust gear bracket. See adjustment procedure.
Snowthrower veers to one side.	1. Tires pressure not equal. 2. One wheel is set in Free-Wheeling mode. (Traction Lock Pin is in the OUTER hole).	1. Check tire pressure. 2. Make certain BOTH Traction Lock Pins are in the INNER holes (to engage traction drive).
Excessive vibration.	1. Loose parts or damaged auger.	1. STOP engine and REMOVE the key. DISCONNECT the spark plug wire. Tighten all hardware. Replace auger if necessary. If vibration continues, see your dealer.
Drive fails to move snowthrower at slow speeds.	1. Traction Drive out of adjustment.	1. Readjust drive, or shift Speed Selector setting up one speed faster.

SPEED SELECTOR PIVOT ADJUSTMENT

The Speed Selector is factory set for optimal performance at each forward and reverse speed setting. However, if drive system components have been replaced, adjustment may be necessary.

Adjust as follows:

1. Move the ground speed control (A, Figure 20) fully forward.
2. Loosen the hardware (B) securing the upper and lower shift rods.
3. Push the lower rod (C) down fully (into the housing).
4. Make sure the ground speed control (A) is in the full forward (5th gear) position. Tighten the shift rod hardware (B).

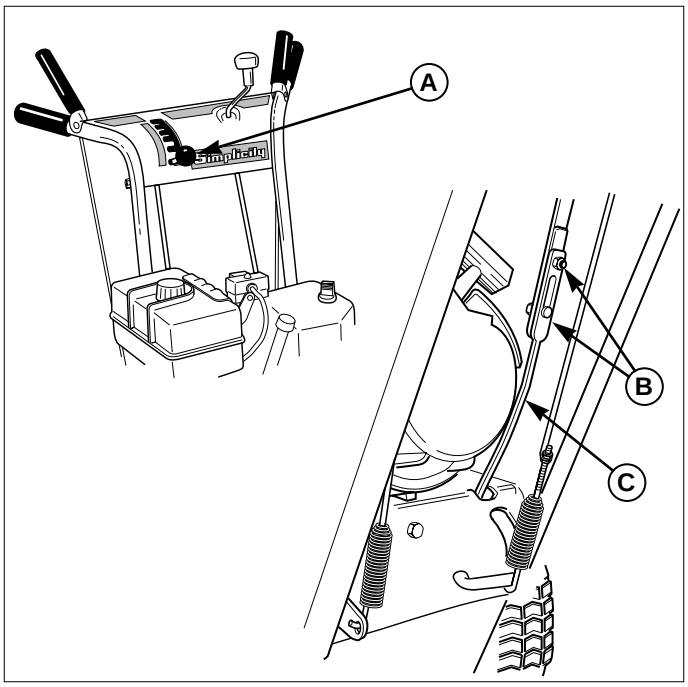


Figure 20. Speed Selector Linkage Adjustment
A. Ground Speed Lever
B. Shift Rod Hardware
C. Lower Shift Rod

TRACTION DRIVE CLUTCH ROD ADJUSTMENT

Initial Adjustment

The traction drive clutch rod should initially be adjusted so that there is no slack in the rod when moved slightly from side to side, but bellcrank arm remains in fully down position. To adjust tension on the rod:

1. Loosen adjustment hex nuts (Figure 21).
2. Tighten top hex nut while holding rod. **Tighten just until slack in rod is removed.**
3. Tighten lower hex nut securely.

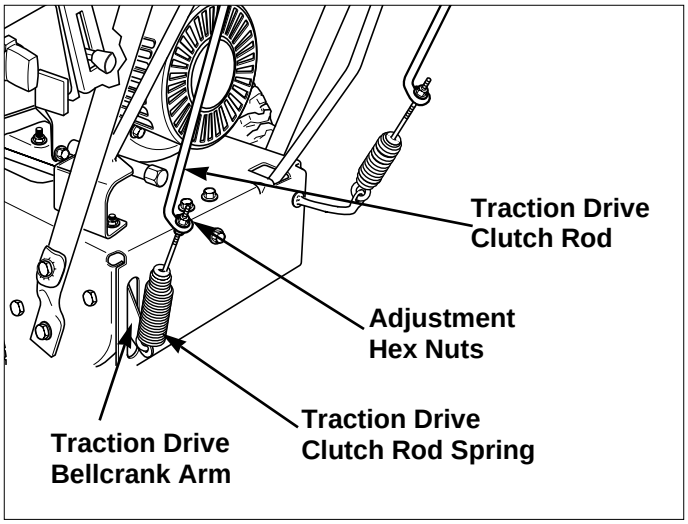


Figure 21. Traction Drive Clutch Rod Adjustment

⚠ WARNING

Do not over-tighten, as this may cause traction drive to engage without depressing the traction Drive Control (bellcrank arm must remain in down position).

Verify that the rods are not over-tightened: With Speed Selector in position 1 and traction Drive Control fully released, push snowthrower forward. The unit should move forward freely.

If unit does not move forward freely, the rod has been over-tightened. To remedy, loosen tension on clutch rod slightly, and recheck.

Run-In Adjustment

1. After 5 hours of use, check for proper adjustment. Readjust clutch rod if necessary by increasing tension on rod. A small amount of bellcrank arm movement is permissible if unit passes operating checks described in the Caution at left. **Optimal adjustment provides 1/32" clearance between traction drive disc and rubber ring on friction disc when drive lever is released** (see Figure 17).

AUGER DRIVE CLUTCH ROD ADJUSTMENT

The auger drive clutch rod should be adjusted so that there is no slack in the rod when moved slightly from side to side. To adjust tension on the rod:

1. Loosen adjustment hex nuts (Figure 22).
2. Tighten top hex nut while holding rod. Tighten just until slack in rod is removed. Be careful not to move idler rod lever when adjusting clutch rod tension.
3. Tighten lower hex nut securely.

⚠ WARNING

Do not over-tighten, as this may lift the idler rod lever and cause auger drive to be engaged without depressing the Auger Control.

4. Start unit and check auger. Auger must not be engaged unless Auger Control is depressed.
5. With engine running, fully depress Auger Control, the auger should engage and run normally.
6. Release Auger Control. **Auger must stop within 5 seconds.**
7. If auger does not operate properly, stop engine and recheck clutch rod adjustments.
8. If clutch rod is properly adjusted, auger drive belt tension may require adjustment. See "Adjusting Auger Drive Belt" on next page.

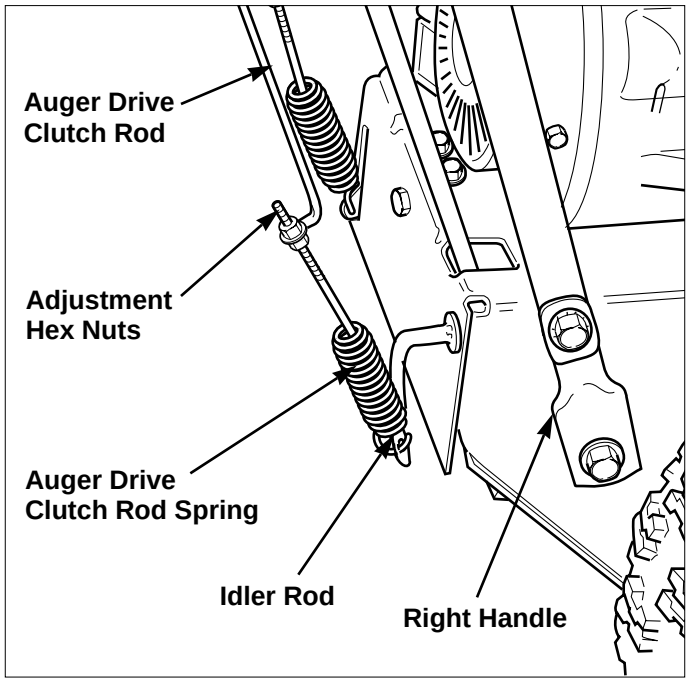


Figure 22. Auger Drive Clutch Rod Adjustment

DRIVE BELT ADJUSTMENT

The snowthrower is equipped with two drive belts located just in front of the engine under the belt cover. Figure 23 shows both belts and idler pulleys. The belt nearest the engine is the unit traction drive (wheels) belt. The belt farthest from the engine is the auger/ impeller drive belt.

The traction drive belt has constant tension provided by a spring-loaded idler pulley arm, and is non-adjustable. This belt rotates whenever the engine is running, and provides power to the traction drive disc, which also rotates constantly while the engine is running.

The auger drive belt tension may be adjusted by moving the auger drive idler pulley. See "Adjusting Auger Drive Belt' on next page.

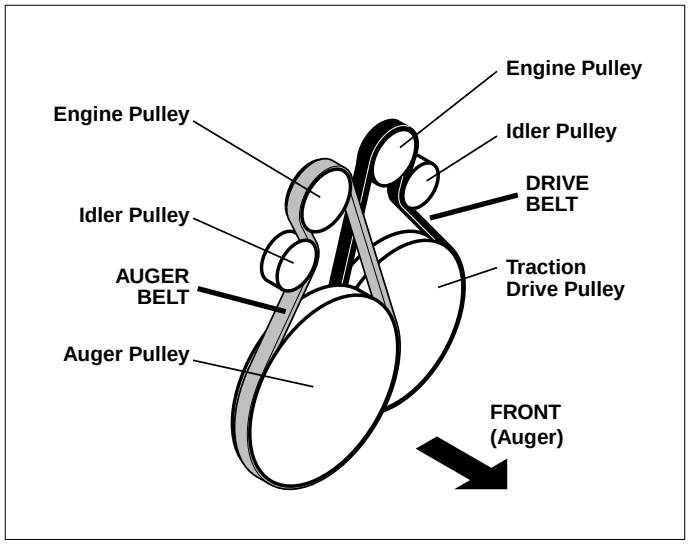


Figure 23. Drive Belt Paths

DRIVE BELT ADJUSTMENT (Continued)

If the auger drive slips (auger slows or doesn't rotate normally while blowing snow), or stays engaged when the control is disengaged — and the auger clutch rod has been properly adjusted — the auger drive belt may be out of adjustment.

⚠ WARNING

Auger must NOT rotate unless the Auger Control lever has been depressed. *Proper Auger Drive Belt adjustments stop the auger within 5 seconds after the Auger Control is disengaged.*

Checking Auger Belt & Belt Guide Adjustments

1. Insert the Engine Key and start the Snowthrower.
2. Engage and disengage the Auger Control a series of ten times, checking that the auger comes to a complete stop within 5 seconds after the control is disengaged each time.
3. If the auger comes to a complete stop each time within 5 seconds, the adjustment is correct. If the auger does NOT come to a complete stop within the necessary 5 seconds, the adjustment is incorrect: readjusting the Auger Belt & Belt Guide according to the procedures below.

Adjusting Auger Drive Belt

1. Make certain that the snowthrower is off, the Engine Key has been removed, and the spark plug disconnected.
2. Check that there is no slack in the auger drive clutch rod (see Figure 25). If there is, follow the Auger Drive Clutch Rod Adjustment procedure on page 19.
3. Measure the length of the auger drive clutch spring (Figure 25).
4. Fully depress the auger control and measure the expanded length of the spring.

   The spring should expand 19/64”-5/16”. If the spring deflection is less than 19/64”-5/16” the auger idler pulley must be adjusted. Proceed to step 5.
5. Using a 3/8” wrench, loosen the Belt Cover screws and remove the Belt Cover.
6. Loosen the adjustment bolt (see Figure 26) and move the auger idler pulley.
7. Tighten the adjustment bolt and repeat steps 3-4.
8. Test run the unit. The auger must NOT rotate unless the Auger Control lever has been depressed. Proper Auger Drive Belt adjustments stop the auger within 5 seconds after the Auger Control is disengaged. If the auger drive fails either of these tests, repeat the adjustment procedures.

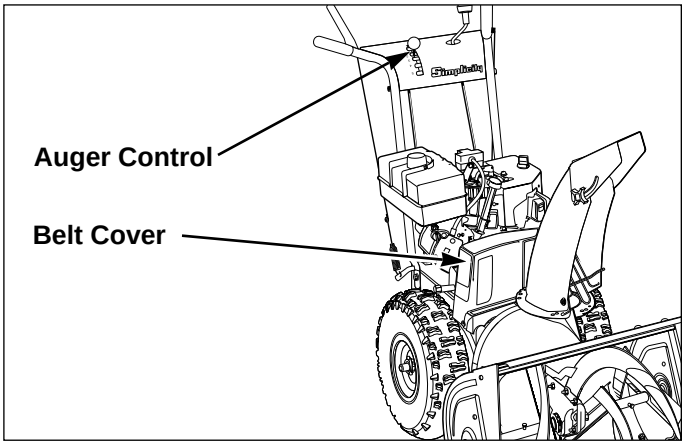


Figure 24. Auger Control and Belt Cover Location

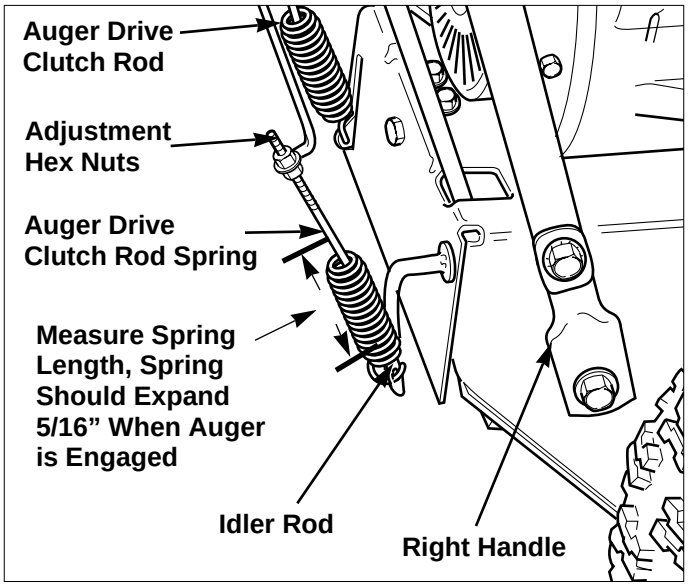

Auger Drive Clutch Rod
Adjustment Hex Nuts
Auger Drive Clutch Rod Spring
Measure Spring Length, Spring Should Expand 5/16” When Auger is Engaged
Idler Rod
Right Handle

Figure 25. Auger Drive Clutch Rod

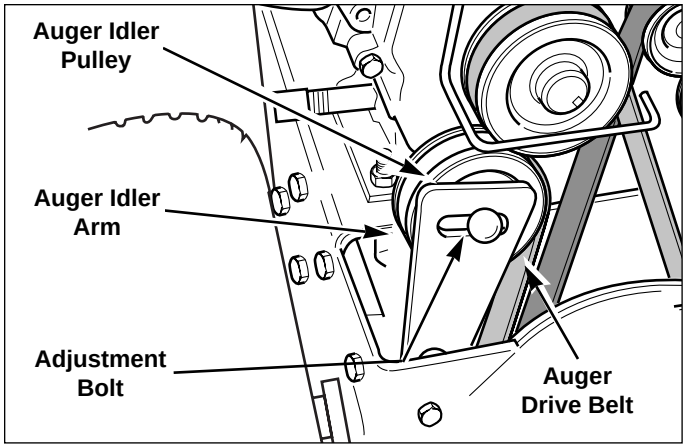


Figure 26. Auger Drive Belt, Guide and Pulley

9. After adjusting the Auger Drive Belt, the Auger Belt Guide MUST BE adjusted according to the *Adjusting Auger Belt Guide* procedure which follows.

DRIVE BELT ADJUSTMENT (Continued)

Adjusting Auger Belt Guide

1. With the Auger Control still fully depressed, adjust the Auger Belt Guide so that there is a 1/64” gap (1/32” Maximum) between the end of the guide and the belt (Figure 27), making certain the guide is NOT putting pressure on the belt.
2. Making certain the Auger Belt Guide does NOT move while doing so, tighten the Auger Belt Guide Screw (Figure 27) to secure the guide.
3. Check the adjustment on the Auger Belt Guide (Figure 27) to make certain that the gap between the belt and the belt guide is correct.
4. Disengage the Auger Control by removing the cardboard tube (or other means used to temporarily secure the control.)
5. Test the unit by following the steps under the “Checking Auger Belt & Belt Guide Adjustments” above.

⚠ WARNING

Failure to properly adjust the Auger Belt Guide may cause auger to rotate when Auger Control has not been depressed.

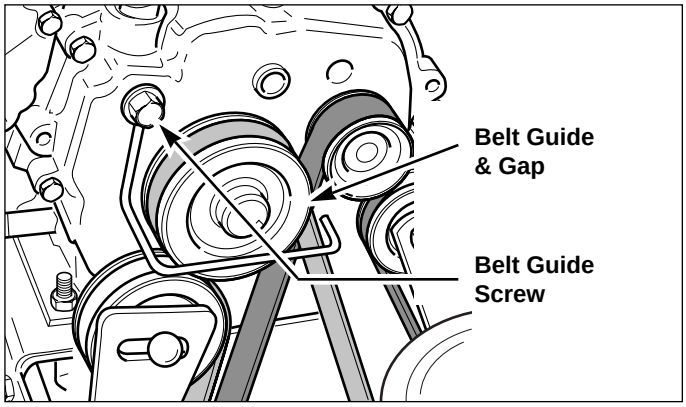


Figure 27. Auger Belt Guide Adjustment

DRIVE BELTS AND REPLACEMENT

The snowthrower has two drive belts, one for the Traction Drive—which transmits engine power to the wheels, and a second for the Auger Drive—which transmits engine power to the auger mechanism.

Each of these drive belts are of special construction and should be replaced only with Genuine Replacement Belts which match the original equipment belts. These are available from your dealer. (See COMMON REPLACEMENT PARTS at the back of this manual for the correct part numbers for each of the belts.)

Traction Drive Belt Replacement

1. Disconnect spark plug wire and fasten it away from the spark plug.
2. Remove belt cover.
3. Pull the traction drive belt idler pulley arm (See Figure 23) away from the belt to relieve tension, and slide the belt off the engine pulley.
4. Slip the belt off from around the traction pulley (See Figure 28) and pull the belt out of the unit between the auger pulley and the traction pulley (the lower cover need not be removed for this step).
5. Reverse the procedure to install the new belt. Be sure there are no twists in the belt, and that the belt is properly seated in the pulley grooves.
6. Replace the belt cover.

⚠ WARNING

Snowthrower must move only when the traction Drive Control is depressed, and must stop when the lever is released (disengaged).

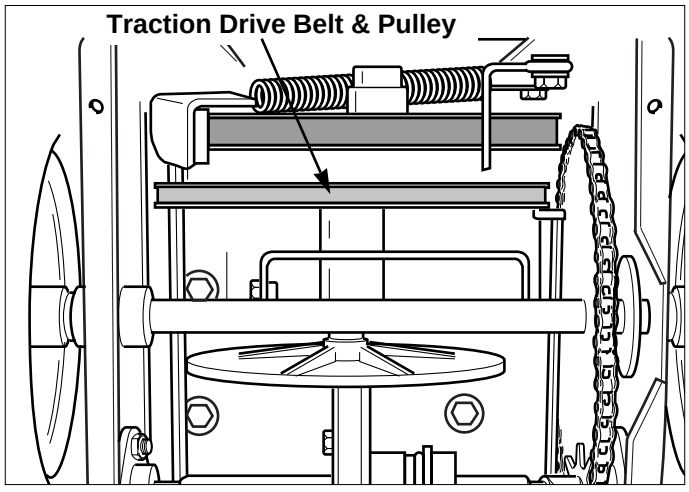


Figure 28. Traction Drive Pulley (Lower Cover Removed For Clarity)

7. Start the unit, and check the traction drive for proper operation. See "Traction Clutch Rod Adjustment" for adjustment procedures.

DRIVE BELT REPLACEMENT (Cont.)

Auger Drive Belt Replacement

1. Remove gas from fuel tank and run engine until it stops running from lack of fuel.
2. Disconnect spark plug wire and fasten it away from the spark plug.
3. Remove belt cover (See Figure 27).
4. Loosen auger belt guide and slide belt off engine pulley and away from idler pulley. (See Figure 27).
5. Clamp or tie Auger Control lever to handle in the fully depressed position to release all tension on the auger pulley brake pad, and provide clearance for belt removal.
6. Tilt unit forward and rest on auger housing.
7. Remove lower cover.
8. Loosen hex screws securing belt stop (Figure 29), and pivot the belt stop away from the pulley to permit removal of belt.
9. Pull the belt out of the unit, and install the new belt on the auger drive pulley.
10. Position belt stop to provide 1/8" clearance between stop and belt, and and tighten securely.
11. Replace lower cover.
12. Return unit to normal upright operating position.
13. Release Auger Control.
14. Install auger belt over engine pulley.
15. Adjust auger belt stop as described under ADJUSTING BELT GUIDES.
16. Install belt cover.
17. Connect spark plug wire and fill fuel tank.
18. Start Unit and check auger for proper operation. See "Auger Drive Clutch Rod Adjustment" for adjustment procedures if additional adjustment is necessary.

⚠ WARNING

Auger must NOT rotate unless the Auger Control lever has been depressed, and auger must stop within 5 seconds after Auger Control lever has been released.

⚠ WARNING

Do not go near the discharge chute or auger when the engine is running. Do not run the engine with any cover or guard removed.

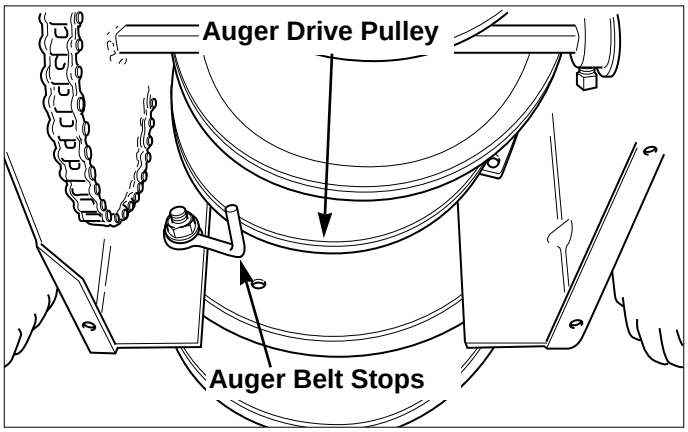


Figure 29. Auger Drive Pulley and Belt Stops

ROLLER CHAIN REPLACEMENT

NOTE: This procedure does not apply to models that use an "endless" chain.

1. Remove gas from fuel tank and run engine until it stops running from lack of fuel.
2. Disconnect spark plug wire and fasten it away from the spark plug.
3. Tilt the snowthrower forward and carefully rest unit on the auger end.
4. Rotate the wheel to locate the roller chain master link.
5. Remove the keeper link, master link and chain.
6. Install new chain and master link as shown in Figure 30.
7. Return snowthrower to upright operating position.
8. Connect spark plug wire and fill fuel tank.

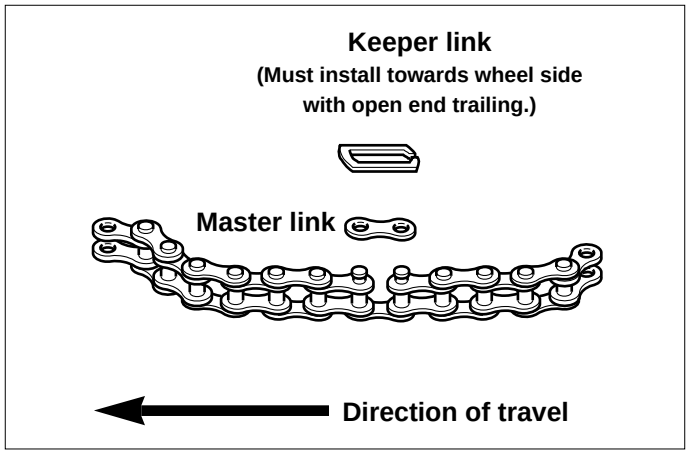


Figure 30. Roller Chain Master Link

SHEAR PIN REPLACEMENT

Under most circumstances, if the auger strikes an object which could cause damage to the unit, the shear pin will break. (This protects the gear box and other parts from damage.)

The shear pins are located on the auger shaft as shown in Figure 31. To replace the shear pins, tap out broken pin with a pin punch, and install a new shear pin and cotter pin. Spread the legs of the new cotter pin fully. **Do NOT replace shear pins with anything other than the correct grade replacement shear pin.** See the REPLACEMENT PARTS section at the back of this manual for the correct part numbers. (Use of bolts, screws or a harder shear pin will lead to damaged equipment.)

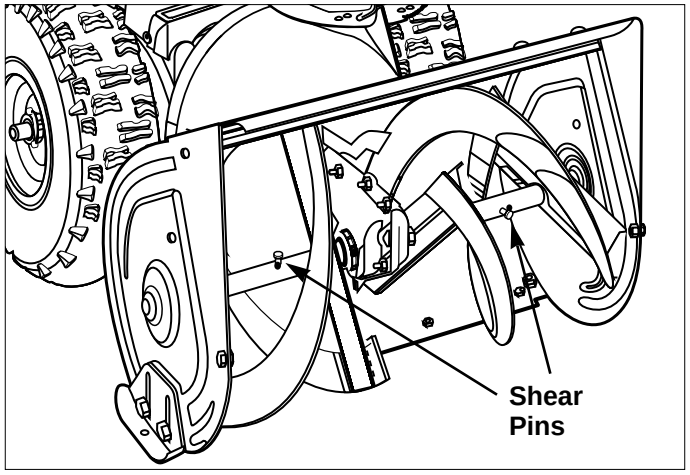


Figure 31. Shear Pin Replacement

⚠ WARNING

Do not go near the discharge chute or auger when the engine is running. Do not run the engine with any cover or guard removed.

AUGER SHAFT BEARING REPLACEMENT

If auger shaft bearings need replacement, proceed as follows:

1. Pry off the E-ring (Figure 32).
2. Remove the washers, then pull the bearing out of the housing and off the shaft.
3. Apply a coating of grease to inside diameter of bearings.
4. Install new bearing by aligning bearing flat sides with flat sides in housing.
5. Install washers. Install a new E-ring securely in shaft

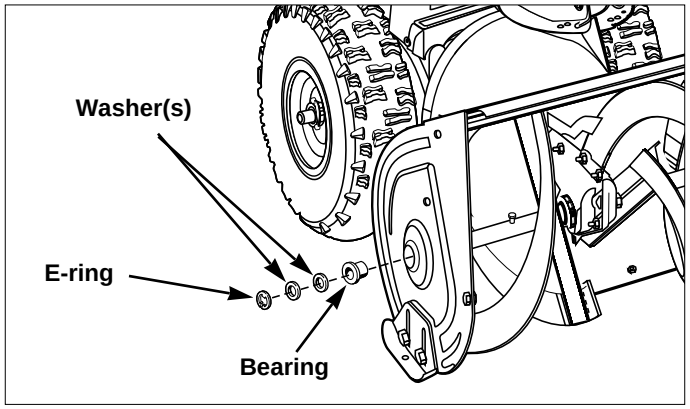


Figure 32. Auger Bearings

DISCHARGE CHUTE WORM ASSEMBLY ADJUSTMENT

If the Discharge Chute becomes difficult to rotate or begins to operate erratically, the Worm Assembly may require adjustment:

1. Loosen the adjustment screw under the Worm Assembly mounting area (Figure 33).
2. Slide the Worm Assembly in or out to provide smooth engagement between the worm wire and the slots in the base of the Discharge Chute.
3. Tighten the adjustment screw and check for smooth operation by turning the Chute Deflector Knob.
4. Readjust if necessary to provide smooth operation throughout entire range of motion.
5. Lubricate the Chute Ring and Worm Assembly as needed

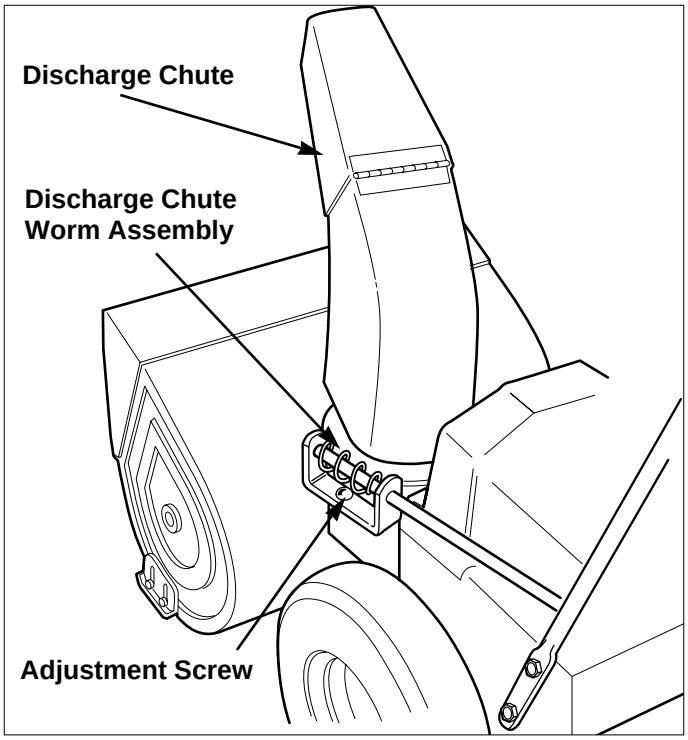


Figure 33. Discharge Chute Worm Adjustment

CHUTE DIRECTION CONTROL ROD GEAR ADJUSTMENT

If the Discharge Chute becomes difficult to rotate or begins to operate erratically, the Chute Direction Control rod gears may require adjustment:

1. Loosen the gear bracket mounting nuts (Figure 34).
2. Slide the gear bracket into the position that provides the best engagement between the gears.
3. Tighten the bracket mounting nuts, and check for smooth operation.
4. Readjust if necessary.
5. Lubricate the Chute Direction Control rod gears with a medium weight (10W) oil.

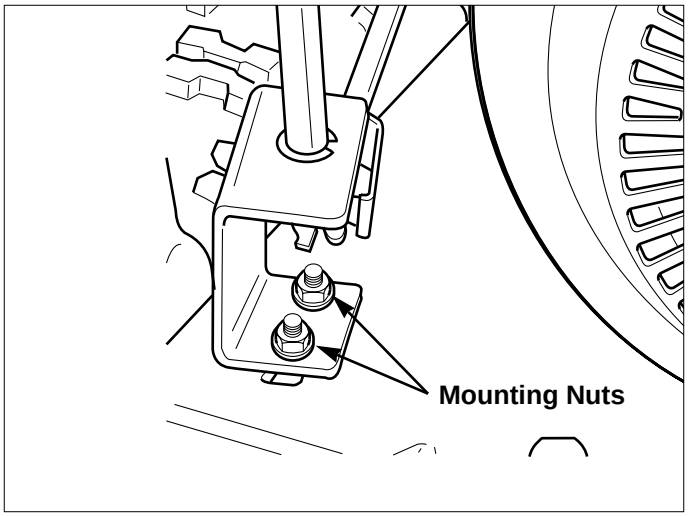


Figure 34. Chute Direction Gear Adjustments

CHECKING TIRE PRESSURE

The air pressure in each tire (Figure 35) should be 20 psi (136 kPa) and should be equal for both tires for best performance. Be sure to keep caps on valves to prevent entry of debris into the valve stem when tires are filled.

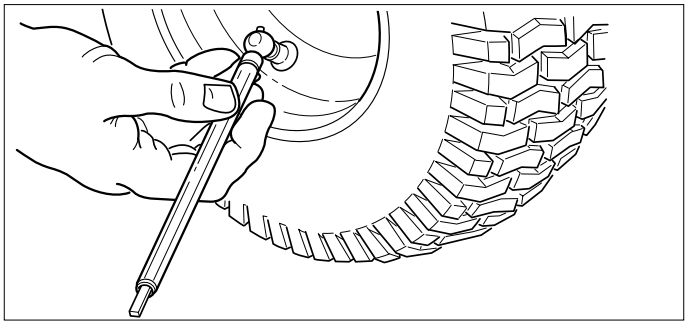


Figure 35. Checking Tire Pressure

ENGINE

Make .....Tecumseh
Cylinders.....1
Cycles.....4
Crankshaft .....Horizontal
5 HP (555M)
- Model No. .....See engine I.D. plate
- Bore & Stroke.....2.795 in. x 1.937 in. (70.99 mm x 49.20 mm)
- Displacement.....11.88 cu. in. (195 cc)
7 HP (755E)
- Model No. .....See engine I.D. plate
- Bore & Stroke.....2.795 in. x 1.937 in. (70.99 mm x 49.20 mm)
- Displacement.....11.88 cu. in. (195 cc)
Ignition .....Magneto
Governor.....Mechanical
Choke .....Manual
Lubrication .....Splash system
Oil Capacity .....See engine manual
Fuel Capacity.....See engine manual

DRIVE

Type .....Traction Drive w/chain and speed selection
Speeds.....Five forward and two reverse
Axle.....Solid
Tire Inflation .....20 psi (136 kPa)

AUGER HOUSING

Construction.....Welded steel stampings
Effective Width .....22 in. (55 cm)
Auger Opening Height with Extension.....16.5 in. (42 cm)
Chute Rotation .....192°
Scraper Bar.....Wear resistant steel
Skid Shoes.....Adjustable, heat-treated steel

AUGER

Construction.....Ribbon flite welded steel
Bearings.....Ultra high Molecular Weight Polyethylene

IMPELLER

Construction.....4 steel blades
Bearings .....Pre-lubricated and sealed ball bearing
Diameter.....10 in. (25.4 cm)

OVERALL DIMENSIONS & WEIGHT

Length .....51 in. (132 cm)
Width .....24 in. (61 cm)
Height.....43-1/2 in. (110 cm)
Weight
555M .....158 lbs. (72 kg)
755E.....178 lbs. (80 kg)

SPECIFICATIONS ARE CORRECT AT TIME OF PRINTING AND ARE SUBJECT TO CHANGE WITHOUT NOTICE.

COMMON REPLACEMENT PARTS

Listed below are part numbers for the more common replacement parts. Use only genuine Simplicity replacement parts to assure optimum performance and safety.

Simplicity Gas Stabilizer
- 8 oz. Bottle.....1685748
- Case of 12 Bottles (8 oz. ea.).....1685747
Special Worm Gear Oil for Auger Gear Case
- 8 oz. Container.....1704636
- Case of 12 Bottles (8 oz. ea.).....*1685406*
Simplicity Brand SAE 5W30 SF/CD
Cold Weather Engine Oil
- Case of 12 Qts......*1685576*
Shear Pin, Auger 1668344
Cotter Pin (for shear pin) 1918447
Skid Shoes (set of 2) 1685501
Auger Drive Belt.....1717393
Wheel Drive Belt - 5 HP.....1715127
Wheel Drive Belt - 7 HP.....1715591
Grease Gun Kit.....1685510
8 oz. Grease Tube.....103077
Touch-Up Paint
- Deep Orange Spray Paint (13 oz. can) 1685611
- Deep Orange Paint (1 qt. can).....1685612
- Deep Orange Paint (1/2 oz. dauber) 1685615
- Gloss Black Spray Paint (13 oz. can).....1686779
Equipment Cleaner/Degreaser/Degrimer
- 32 oz. Spray Bottle 1685619
- 1 gallon bottle 1685621
Cleaner/Polish/Protectant
- 8 oz. bottle.....1685697
Pneumatic Tire Seal - Stops & Prevents Leaks
- 11 oz. tube.....1685523
- Case of 12 (11 oz. tubes) 1685537
- Case of 24 (11 oz. tubes) 1685525

USE ONLY GENUINE
***SIMPLICITY* REPLACEMENT PARTS**
Available through your local
authorized *SIMPLICITY* dealer.

ACCESSORIES

See your dealer to purchase any of the following accessories for your snowthrower.

Light Kit (7HP Models only)

Light for late afternoon and early evening snowthrowing.

Electric Start Kit (120V AC)

Offers operator the convenience of electric starting. Available for all models. Standard on some models.

Drift Cutters

Helps break through drifts.

TECHNICAL MANUAL AVAILABILITY

Additional copies of this manual, as well as a fully illustrated Parts Manuals for your snowthrower are available. The Parts Manuals show all of the assemblies and individual parts as exploded views which show the relationship of the parts and how they go together. Important assembly notes and special torque values are included in the illustrations. Standard hardware and torque specification charts are also included.

To order copies of the manuals applicable to your model, contact the Simplicity Customer Publications Department at ***414-284-8519.*** Have the following information available when phoning in your request.

Model: _____

M/N (Mfg. No.): _____

S/N (Serial #): _____

Your Name: _____

Address: _____

City, State, Zip: _____

Visa/Mastercard No.: _____

Card Expiration Date: _____